

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2010-0831

FOR
LOPEZ AGRICULTURAL SERVICES
SOIL BLENDING AND MATERIALS RECYCLING FACILITY
SACRAMENTO COUNTY

This monitoring and reporting program (MRP) prescribes requirements for monitoring of materials piles, storm water runoff, and impounded process water at the Lopez Agricultural Services facility in Sacramento County. This MRP is issued pursuant to California Water Code (CWC) Section 13267. CWC Section 13267(b) provides:

“In conducting an investigation specified in subdivision (a), the Regional Water Board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposed to discharge within its region, or any citizen or domiciliary, or political agency or entity of this state who had discharged, discharges, or is suspected of having discharged or discharging, or who proposed to discharge waste outside of its region that could affect the quality of the waters of the state within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the board requires. The burden, including costs of these reports, shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.”

The monitoring reports required in this Order are necessary to obtain information to evaluate any potential threat to surface and/or ground water quality associated with facility operations, including discharges to unlined ponds. The monitoring information will be used to identify the appropriate regulatory program applicable to the facility (i.e., Title 27 or Non-Chapter 15)¹ and the need for regulating the facility under waste discharge requirements (WDRs). The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.

All water samples should be representative of the volume and nature of the discharge. The time, date, and location of each grab sample shall be recorded on a chain of custody form. Field test instruments may be used for measuring field parameters (such as pH and dissolved oxygen) provided that:

1. The operator is trained in the proper use of the instrument;
2. The instruments are field calibrated prior to each use;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the “Reporting” section of this MRP.

1. Title 27 sites regulated under California Code of Regulations (CCR), title 27, division 2, while Non-Chapter 15 sites regulated directly under the California Water Code.

A. STORAGE POND MONITORING

1. Contact Water

The monitoring report shall identify all ponds and impoundments used at the facility during the monitoring period to store contact water (i.e., impacted storm water and/or facility process water).² Such ponds and impoundments shall be monitored as follows:

<u>Parameter/Constituent</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Field Parameters				
Freeboard	feet (±0.1)	Measure ¹	Monthly	Quarterly
Dissolved Oxygen	mg/L	Meter	Monthly	Quarterly
pH	pH Units	Meter	Monthly	Quarterly
Electrical Conductivity	µmhos/cm	Meter	Monthly	Quarterly
Monitoring Parameters				
Process Constituents²				
Total Coliform Organisms	MPN ³ /100 ml	Grab ⁴	Monthly	Quarterly
Other Process Constituents ²	mg/L	Grab ⁴	Monthly	Quarterly
General Minerals ²	mg/L	Grab ⁴	Monthly	Quarterly
Dissolved Inorganics ²	µg/L	Grab ⁴	Quarterly	Quarterly

1. Freeboard shall be measured vertically from the surface of the pond water to lowest elevation of any of its sides (e.g., berm, wall or gate). Measurements shall be to the nearest one-tenth of a foot.
2. See Attachment II for full list of constituents and test methods.
3. MPN - Most Probable Number.
4. Grab samples shall be collected at a depth of one foot below the pond surface.

2. Non-Contact Water

The report shall identify all ponds/impoundments used at the facility during the monitoring period to store only non-contact water (i.e., clean storm water and/or groundwater).² Such ponds/impoundments shall be monitored as follows:

<u>Parameter/Constituent</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Field Parameters				
Freeboard	feet (±0.1)	Measure ¹	Quarterly	Quarterly
Dissolved Oxygen	mg/L	Meter	Quarterly	Quarterly
pH	pH Units	Meter	Quarterly	Quarterly
Electrical Conductivity	µmhos/cm	Meter	Quarterly	Quarterly

2. The Discharger plans to use Pond 1 for the storage of non-contact water and Ponds 2 and 3 for the storage of contact water.

<u>Parameter/Constituent</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Monitoring Parameters				
General Minerals ²	mg/L	Grab ³	Quarterly	Quarterly
Dissolved Inorganics ²	µg/L	Grab ³	Quarterly	Quarterly

1. Freeboard shall be measured vertically from the surface of the pond water to lowest elevation of any of its sides (e.g., berm, wall or gate). Measurements shall be to the nearest one-tenth of a foot.
2. See Attachment II for full list of constituents and test methods.
3. Grab samples shall be collected at a depth of one foot below the pond surface.

A suggested reporting format for this section is included in Attachment III.A.

B. STORM WATER MONITORING

The Discharger shall conduct storm water monitoring consistent with the General Industrial Storm Water Permit, including the Storm Water Pollution Prevention Plan (SWPPP) developed thereunder. Storm water samples collected under the General Permit shall be analyzed for all pond monitoring parameters and constituents listed in Section A herein, except for freeboard. A summary of the results of storm water sampling, including analytical data and laboratory reports, shall be included in the quarterly reports submitted under this MRP.

A suggested reporting format for this section is included in Attachment III.B.

C. FACILITY MONITORING

1. Materials Acceptance Monitoring

The Discharger shall report, in appropriate units, the type and quantity of all solids and liquids accepted at the facility, including, but not necessarily limited to, composting and soil blending process materials (e.g., feedstock, additives).

2. Equipment Monitoring

The status of equipment used in controlling and/or monitoring flow (i.e., active or inactive) shall also be recorded and provided in the quarterly monitoring reports. Such equipment shall, for example, include the following:

- a. Canal impoundment gates (i.e., open or closed).
- b. Pumps and pipelines used to convey flows to and from the ponds/canal impoundment.
- c. Same as C.2.b for supply wells.

A suggested reporting format for this section is included in Attachment III.C.

D. SUPPLY WELL MONITORING

A representative ground water sample shall be obtained from each supply well used in facility operations in order to obtain background groundwater quality data. Supply well samples shall be analyzed for the constituents and at the frequencies specified in the following table:

<u>Parameter/Constituent</u> ¹	<u>Units</u>	<u>Sample Type</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u> ²
Field Parameters				
pH	pH Units	Meter	Semiannually	Semiannually
Electrical Conductivity	µmhos/cm	Meter	Semiannually	Semiannually
Monitoring Parameters				
Total Dissolved Solids	mg/L	Grab	Semiannually	Semiannually
General Minerals ¹	mg/L	Grab	Semiannually	Semiannually
Dissolved Inorganics ¹	mg/L	Grab	Semiannually	Semiannually

1. See Attachment II for full list of constituents and test methods.

2. Results shall be included in Second and Fourth Quarter monitoring reports submitted under Section E herein.

A suggested reporting format for this section is included in Attachment III.D.

E. REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type, and reported analytical result for each sample are readily discernible. As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all monitoring reports shall be prepared under the direct supervision of a registered professional engineer or geologist and signed by the registered professional.

Quarterly Monitoring Reports shall be submitted to the Regional Board by the 1st day of the second month following the end of the reporting period, as follows:

Quarter	Reporting Period	Quarterly Report Due
1 st	1 January – 31 March	1 May
2 nd	1 April – 30 June	1 August
3 rd	1 July – 30 September	1 October
4 th	1 October – 31 December	1 February

The Quarterly Reports shall be transmitted with the certification statement required below and shall include the following:

1. A scaled site map showing each major area of the facility (e.g., ponds, soil blend, gypsum recycling, composting, and materials processing areas).
2. Cumulative tabular results of water quality analytical data, as applicable, from each monitored area of the facility.
3. A discussion of the monitoring results and site operations during the monitoring period, including:
 - a. Whether, and if so when, any water was released or discharged to any location outside the site property boundaries;
 - b. A general discussion of water sources and usage during the monitoring period; and
 - c. A general discussion about the quality of the water in the storage ponds and Canal Impoundment.
4. Copies of all laboratory analytical report(s).
5. Copies of all completed data sheets from Attachment III, or equivalent.
6. Copies of field calibration reports for all instruments used in monitoring.
7. A discussion of operation measures implemented during the monitoring period to address deficiencies so as to prevent nuisance and/or protect water quality (e.g., storm water controls or best management practices).

Reports that do not comply with the above-required format may be deemed to be in noncompliance with this Order. A suggested quarterly report format that complies with the report format requirements set forth in this MRP is provided in Attachment III of this Order. Such report shall also contain a text section and any other information needed to comply with the Reporting Requirements of this Order. The Discharger is not required to use the suggested quarterly report format, but all quarterly monitoring reports must comply with this Order.

A letter transmitting the monitoring reports shall accompany each report. Such a letter shall include a discussion of operation or facility modifications. The transmittal letter accompanying monitoring reports submitted under this Order shall contain a statement by the discharger, or the discharger's authorized agent, under penalty of perjury, that reads as follows:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

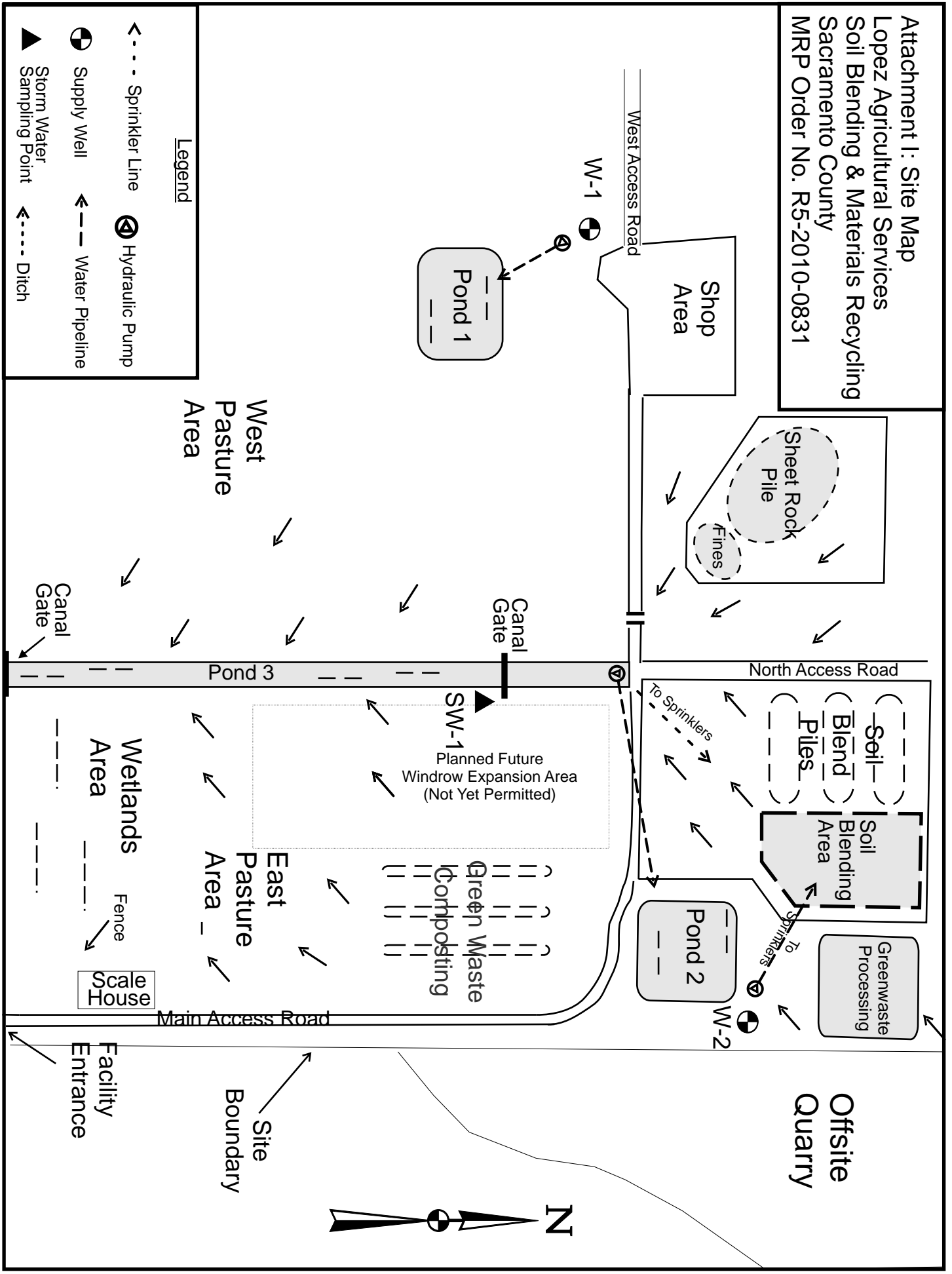
The Discharger shall implement the above monitoring program as of the date of this Order.

Ordered by: _____ original signed by _____
PAMELA C. CREEDON, Executive Officer

27 October 2010
(Date)

Attachments
JDM

Attachment I: Site Map
 Lopez Agricultural Services
 Soil Blending & Materials Recycling
 Sacramento County
 MRP Order No. R5-2010-0831



Scale House



Site Boundary

Facility Entrance

Main Access Road

Wetlands Area

East Pasture Area

Green Waste Composting

Planned Future Windrow Expansion Area (Not Yet Permitted)

Pond 3

North Access Road

Pond 2

Pond 1

West Access Road

Shop Area

- Legend**
- > Sprinkler Line
 - ⊕ Hydraulic Pump
 - ⊕ Supply Well
 - > Water Pipeline
 - ▲ Storm Water Sampling Point
 - > Ditch

West Pasture Area

SW-2

Florin Road

Offsite Quarry

II. ATTACHMENT II

Monitoring Parameters & Approved USEPA Analytical Methods

Field Parameters	Test Method
Freeboard, feet (± 0.1)	n/a
Temperature, °C, °F	n/a
Dissolved Oxygen, mg/L	n/a
pH, pH Units	n/a
Turbidity, NTU	n/a
Monitoring Parameters	
Process Constituents:	
Total Coliform Organisms	SM 9221B
Total Kjeldahl Nitrogen	SM 4500
Nitrate as Nitrogen	SM 4500
Fixed Dissolved Solids	SM 2540E
Tannins and Lignins	SM 5550B
General Minerals:	
Major Anions	
Alkalinity, Bicarbonate	SM 2320B
Chloride	EPA 300 (anion scan)
Nitrate – Nitrogen	EPA 300 (anion scan)
Sulfate	EPA 300 (anion scan)
Major Cations	
Calcium	EPA 200.7
Magnesium	EPA 200.7
Potassium	EPA 200.7
Sodium	EPA 200.7
Dissolved Inorganics ¹	
Aluminum	EPA 200.7
Antimony	EPA 200.7
Arsenic	EPA 200.8/200.9
Barium	EPA 200.7
Beryllium	EPA 200.7
Boron	EPA 200.7
Cadmium	EPA 200.7
Chromium	EPA 200.7
Hexavalent Chromium	EPA SW-846 7199/EPA 1636
Cobalt	EPA 200.7
Copper	EPA 200.7
Cyanide	EPA 335.4/ SW-846 9010

Iron	EPA 200.7
Lead	EPA 200.8/200.9
Manganese	EPA 200.7
Mercury	EPA SW-846 7470A
Molybdenum	EPA 200.7
Nickel	EPA 200.8/200.9
Selenium	EPA 200.8/200.9
Silver	EPA 200.7
Sulfide	EPA SW-846 9030
Thallium	EPA 200.7
Tin	EPA 200.7
Vanadium	EPA 200.7
Zinc	EPA 200.7

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1. Samples shall be filtered prior to performing dissolved inorganics analysis

III. ATTACHMENT III

Sample Quarterly Monitoring Report Format

DATE: _____

TO:

Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

FROM:

Lopez Agricultural Services
11499 Florin Road
Sacramento, CA 95829

Attention: Todd Del Frate

QUARTERLY MONITORING REPORT FOR _____
(Quarter) (Year)

Enclosed is the quarterly monitoring report for Lopez Agricultural Services facility in Sacramento County. The report covers the monitoring period noted above.

The following attachments comprise this monitoring report:

- A. Storage Pond Monitoring Summary
- B. Storm Water Monitoring Summary
- C. Facility Monitoring Summary
- D. Supply Well Monitoring Summary
- E. Analytical laboratory report(s) dated _____
- F. Other required text and/or tables (see "Quarterly Monitoring Report" requirements in MRP)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

(Signature)

(Date)

(Printed Name)

Sample Quarterly Monitoring Report Format (con't)

A. STORAGE POND MONITORING

<u>Parameter/Constituent</u>	<u>Units</u>	<u>Monitoring Result</u> ¹		
		Pond 1	Pond 2	Pond 3
Field Parameters				
Freeboard	feet (± 0.1)			
Dissolved Oxygen	mg/L			
pH	pH Units			
Electrical Conductivity	μ mhos/cm			
Monitoring Parameters				
Process Constituents (list)				
General Minerals (list)	mg/L			
Dissolved Inorganics (list)	μ g/L			

1. Storage pond reporting shall also indicate whether pond contained contact or non-contact water.

B. STORM WATER MONITORING

<u>Parameter/Constituent</u>	<u>Units</u>	<u>Monitoring Result</u>		
		SW-1	SW-2	SW-3
Field Parameters				
Freeboard	feet (± 0.1)			
Dissolved Oxygen	mg/L			
pH	pH Units			
Electrical Conductivity	μ mhos/cm			
Monitoring Parameters				
Process Constituents (list)				
General Minerals (list)	mg/L			
Dissolved Inorganics (list)	μ g/L			

Sample Quarterly Monitoring Report Format (con't)

C. FACILITY MONITORING

1. Materials Acceptance

<u>Location</u>	<u>Solids</u>		<u>Liquids</u>	
	<u>Type</u>	<u>Quantity</u> ¹	<u>Type</u>	<u>Volume (gallons)</u>
Gate/Tipping Area				
Composting Windrows				
Soil Blending Area				
Gypsum Processing Area				
Other Areas (list)				

1. Report quantity in appropriate units of weight and/or volume (e.g., tons, cubic yards).

2. Equipment Monitoring

<u>Facility</u>	<u>Equipment Status</u> ¹		
	<u>Gate</u>	<u>Pump</u>	<u>Pipeline(s)</u>
Supply well (list)			
Canal Impoundment (Pond 3)			
Other Ponds (list)			

1. Report status with appropriate description (e.g., open, closed, active, down for repair).

D. SUPPLY WELL MONITORING

<u>Parameter/Constituent</u>	<u>Units</u>	<u>Monitoring Result</u>	
		<u>W-1</u>	<u>W-2</u>
Field Parameters			
pH	pH Units		
Electrical Conductivity	µmhos/cm		
Monitoring Parameters			
Total Dissolved Solids	mg/L		
General Minerals (list)	mg/L		
Dissolved Inorganics (list)	µg/L		